



# TH10 Thermal Cut-Out

## **KEY BENEFITS**

# Flexible mounting:

3 terminal configurations available

#### Robust design:

The bimetal disc is protected by the metal support

### Full automated live:

Provides stable setting values

#### Low price:

The particular design provides high competitivity



Sensata Technologies has developed the TH10 temperature cut-out to respond to the need of increasing power of heating and personal care appliances. As a result of this, Sensata Technologies has further established its leading position in the worldwide thermal protection market.

#### Design and operating principles

The TH10 consists of two nickel-plated supports, held together with ceramic pins. One support holds the high performance Klixon® bimetal disc, which, in combination with the sophisticated contact system, provides superior cycling performance. For self-hold versions see TH11/21. A wide temperature range, standard 5K tolerance, different bimetal resistivity, plus optional terminal configurations make the TH10 suitable for a very wide range of applications.

The operating principle of the TH10 is simple and effective. A current flows through the resistive Klixon® bimetal disc. When a fault condition occurs, the increased ambient temperature causes the bimetal disc to snap open the contacts. As the device cools down to a safe temperature again, the contacts will automatically reset.

### **Applications**

The TH10 operates as a sensitive power cut-out for:

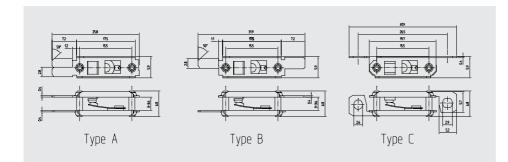
- · Hair dryers
- · Fan heaters
- · Convector heaters
- Transformers
- · Hand drvers

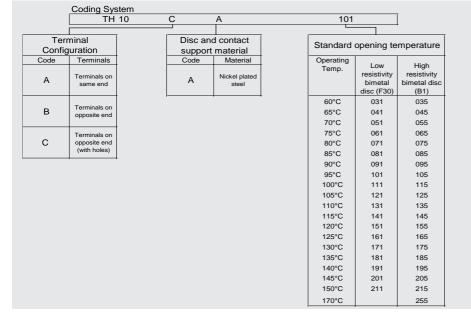
and various other applications. With the TH10 Sensata Technologies provides you with cost-effective protection while offering superior quality and reliability.

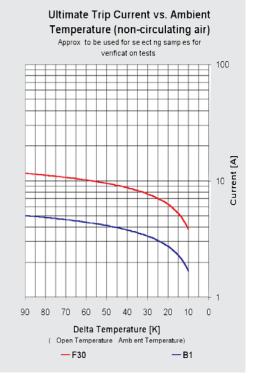


Certifications					
Agency	File number	Rating A-res (A-ind. @ PF=0.6)V / cycles	Standard		
ENEC	2014531.03	13(2)A250 Vac @ 30.000 cycles	EN60730-2-9		
		30(5)A250 Vac @ 3.000 cycles	EN60730-2-9 special		
			rating EN61558		
ENEC	2014531.03		EN60730-2-2		
UL / C-UL	E 54813		UL873 / CSA C22.2 No 24		









Specifications	
Standard operating temperature range	from 45°C - 170°C
Max. Ambient temperature	200°C
Tolerance on open temperature	± 5K

Declarations to EN60730-2-9		Declarations to EN60730-2-2	2
Purpose of the control	Thermal Cut-Out	Purpose of the control	Thermal Motorprotector
Construction	Incorporated, non-electronic		
Degree of protection	IP00		
Terminals for ext. conductors	For internal conductors only		
Method of (dis) connection			
of terminals	Riveting, soldering, spotwelding, springloaded contacting		
Details for terminals for			
internal conductors	Insulation of conductors used by OEM's must be able to withstand		
	the operating temperatures in normal usage		
Temperature limits of the			
switchhead	200°C		
PTI of insulation materials	PTI 250	PTI of insulation materials	PTI 250
Method of mounting	By various means in conjunction with (holes in) terminals, such that	Method of mounting	By various means in conjunction with (holes in) terminals, such
	adequate creepage and clearance distances are maintained between		that adequate creepage and clearance distances are maintained
	live parts and accessible metal parts		between live parts and accessible metal parts
Operating time	For continuous operation		
Type of action	Type 2B	Type of action	Type 3C
Reset characteristic	Automatic	Reset characteristic	Automatic
Extent of sensing element	Whole control		
Control pollution degree	Degree 2	Control pollution degree	Degree 2



### **TECHNICAL / SALES SUPPORT**

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